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## (54) DATA TRANSMISSION DEVICE/METHOD AND DATA RECEPTION DEVICE/METHOD

## (57) Abstract:

**PROBLEM TO BE SOLVED:** To collectively transmit the data stream of different protocols through the transmission line of an SDDI(serial digital data interface) protocol.

**SOLUTION:** The encoding part 120 of a data transmission device 12 code- converts the data stream of DVB(digital video broadcasting) ASI(first protocol). A synchronous byte insertion part 122 inserts the synchronous byte of the first protocol. A synchronous code insertion part 126 multiplexes the synchronous codes (3ffh, 000h and 00h) of an SDI(serial data interface) protocol and IIP (interface information packet) containing data showing the synchronous byte and the like. A P/S(parallel/serial) conversion part 128 converts the data stream into a serial system. An amplification/scramble part 130 executes a scramble processing, executes amplification, generates a transmission signal and transmits it to a data reception device 22. The respective constitution parts of the data reception device 2 execute processings opposite to the respective constitution parts of a data transmission device 10 and decode the data stream of the first protocol.

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